

**METHOD AND APPARATUS FOR DETECTING EXCESS DELAY IN A
COMMUNICATION SIGNAL**

ABSTRACT OF THE DISCLOSURE

- 5 [0068] A method and apparatus of determining a lower bound of an excess delay in a
time of arrival measurement of a received signal. Determining the lower bound of an
excess delay in a time of arrival measurements includes receiving signals from at least
two base stations and determining the time difference of arrival between the received
signals from their respective base stations. Then estimating a lower bound of excess
10 delay introduced into the signals received from the base stations based on the time of
arrival of the signals from the respective base stations and a known distance between the
base stations. The lower bound of excess delay may be used to adjust the estimate of a
mobile unit's location based on the time of arrival measurements of the received signals.

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